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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=9; day=28; hr=16; min=20; sec=13; ms=999; ]

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## Validated By CRFValidator v 1.0.3

Application No: 10577124 Version No: 1.0

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**Finished:** 2009-09-14 18:49:32.273

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Total Warnings: 4

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No. of SeqIDs Defined: 16

Actual SeqID Count: 16

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Gln Ala Tyr Thr Ala Asn His Met Leu Ala Cys Asp Pro Ile Ile Gln

75

55

70

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Ser Asp Leu L		Lu Ser 50	Ser Pr	o Ile	Leu 155	Ser	Trp	Met	Ser	Asn 160
Tyr Ile Phe G	lu Ala Ai 165	la Ile	Arg Il	e Val. 170	Arg	Val	Ser	Leu	Arg 175	Glu
Asp Asp Pro G	ln Glu A 80	la Leu	Thr As		Glu	Thr	Glu	Cys 190	Leu	Phe
Trp Ala Ser G 195	lu Gly L	ys Thr	Ser Gl 200	y Glu	Ile	Ala	Cys 205	Ile	Leu	Gly
Ile Thr Glu A	rg Thr Va	al Asn 215	Tyr Hi	s Leu	Asn	Gln 220	Val	Thr	Arg	Lys
Thr Gly Ser M		rg Tyr 30	Gln Al	a Ile	Ala 235	Lys	Gly	Val	Ser	Ser 240
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Lys Glu Val A 35	rg Arg Le	eu Gly	Phe As	p Tyr	Tyr	Ala	Tyr 45	Gly	Val	Arg
His Thr Ile P	ro Phe Th	nr Arg 55	Pro Ly	s Thr	Glu	Val 60	His	Gly	Thr	Tyr
Pro Lys Ala T	rp Leu Gi	_	Tyr Gl	n Met	Gln 75	Asn	Tyr	Gly	Ala	Val 80

Ser	Asp	Ser	Leu 100	Phe	Asp	Gln	Ser	Arg 105	Met	Leu	Trp	Asn	Glu 110	Ala	Arg
Asp	Trp	Gly 115	Leu	Суз	Val	Gly	Ala 120	Thr	Leu	Pro	Ile	Arg 125	Ala	Pro	Asn
Asn	Leu 130	Leu	Ser	Val	Leu	Ser 135	Val	Ala	Arg	Asp	Gln 140	Gln	Asn	Ile	Ser
Ser 145	Phe	Glu	Arg	Glu	Glu 150	Ile	Arg	Leu	Arg	Leu 155	Arg	Суз	Met	Ile	Glu 160
Leu	Leu	Thr	Gln	Lys 165	Leu	Thr	Asp	Leu	Glu 170	His	Pro	Met	Leu	Met 175	Ser
Asn	Pro	Val	Cys 180	Leu	Ser	His	Arg	Glu 185	Arg	Glu	Ile	Leu	Gln 190	Trp	Thr
Ala	Asp	Gly 195	Lys	Ser	Ser	Gly	Glu 200	Ile	Ala	Ile	Ile	Leu 205	Ser	Ile	Ser
Glu	Ser 210	Thr	Val	Asn	Phe	His 215	His	Lys	Asn	Ile	Gln 220	Lys	Lys	Phe	Asp
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Ile															
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Asn Glu Leu Phe Arg Gly Cys Pro Asp Leu Trp Ser Glu Ala Asn Asp 100 105 110

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Arg Val	Gly	Val	Leu	Ser	Leu 135	Ala	Arg	Lys	Asp	Asn 140	Pro	Ile	Ser	Leu
Gln Glu 145	Phe	Glu	Ala	Leu 150	Lys	Val	Val	Thr	Lys 155	Ala	Phe	Ala	Ala	Ala 160
Val His	Glu	Lys	Ile 165	Ser	Glu	Leu	Glu	Ser 170	Asp	Val	Arg	Val	Phe 175	Asn
Thr Asp	Val	Glu 180	Phe	Ser	Gly	Arg	Glu 185	Cys	Asp	Val	Leu	Arg 190	Trp	Thr
Ala Asp	Gly 195	Lys	Thr	Ser	Glu	Glu 200	Ile	Gly	Val	Ile	Met 205	Gly	Val	Cys
Thr Asp 210	Thr	Val	Asn	Tyr	His 215	His	Arg	Asn	Ile	Gln 220	Arg	Lys	Ile	Gly
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Ala Lys Thr Ser Gly Leu Ile Thr Gly Phe Ser Phe Pro Ile His Thr

115 120 125

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Asn Tyr 145	Ile Z	Asp	Ser	Leu 150	Phe	Leu	His	Ala	Cys 155	Met	Asn	Ile	Pro	Leu 160
Ile Val	Pro :	Ser	Leu 165	Val	Asp	Asn	Tyr	Arg 170	Lys	Ile	Asn	Ile	Ala 175	Asn
Asn Lys		Asn 180	Asn	Asp	Leu	Thr	Lys 185	Arg	Glu	Lys	Glu	Cys 190	Leu	Ala
Trp Ala	Cys (	Glu	Gly	Lys	Ser	Ser 200	Trp	Asp	Ile	Ser	Lys 205	Ile	Leu	Gly
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Leu Asn 225	Thr '	Thr	Asn	Arg 230	Суз	Gln	Ser	Ile	Ser 235	Lys	Ala	Ile	Leu	Thr 240
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Met Phe 1 Thr Tyr	Ile (	Gln 20 Val	5 Arg Ser	Lys Lys	Leu Lys	Ser Asn 40	Pro 25 Pro	10 Leu Ser	Gly Asn	Ser Val	Pro Leu 45	Asp 30 Ile	15 Tyr Ile	Ala Ser
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Ser Met G	Gly Lys 195	Thr Ty	r Ala	Glu 200	Ile	Ala	Ala	Ile	Thr 205	Gly	Ile	Ser
Val Ser T 210	Thr Val	Lys Ph	e His 215	Ile	Lys	Asn	Val	Val 220	Val	Lys	Leu	Gly
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Tyr Met V	/al Leu 35	Asn Ly	_	Lys 40	Pro	Thr	Glu	Ile	Leu 45	Ile	Ile	Ser
_	35			40					45			
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Asn His H 50 His Ile A	35 His Asp Asp Pro	Glu Tr	p Arg 55 al Ile	40 Glu Ala	Ile Ala	Tyr Leu	Gln Asn 75	Ala 60 Lys	45 Asn Ile	Asn Thr	Tyr Pro	Gln Phe 80
Asn His H 50 His Ile A	Asp Pro	Glu Tr Val Va 70 Asp Le 85	p Arg 55 al Ile	40 Glu Ala Val	Ile Ala Ser	Tyr Leu Thr 90	Gln Asn 75 Gln	Ala 60 Lys Leu	45 Asn Ile Lys	Asn Thr Met	Tyr Pro Ser 95	Gln Phe 80 Lys
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Asn His H 50 His Ile A 65 Pro Trp A Ile Phe A Val Leu H	Asp Pro Asp Glu Asn Leu 100 His Asp	Glu Tr Val Va 70 Asp Le 85 Ser Ar	sp Arg 55 al Ile eu Leu eg Glu	40 Glu Ala Val His	Ile Ala Ser Asn 105 Leu	Tyr Leu Thr 90 Ile	Gln Asn 75 Gln Thr	Ala 60 Lys Leu Asn	Asn Ile Lys Gly Ser 125	Asn Thr Met Tyr 110	Tyr Pro Ser 95 Thr	Gln Phe 80 Lys Phe

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Ala Trp	Asp .	Asp	Asn 85	Ser	Val	Ile	Asn	Lys 90	Lys	Ser	Thr	Asp	Ser 95	Ala
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Val Leu	His .	Asp	Asn	Ser	Asn	Asn 120	Met	Ala	Thr	Leu	Asn 125	Ile	Ser	Asn
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Ser Val 0	Gly Lys 195	Thr Tyr	Ala Glu 200		Ser	Ile	Ile	Leu 205	Gly	Ile	Lys
Arg Ser T	Thr Val	Lys Phe	His Ile	Gly	Asn	Val	Val 220	Arg	Lys	Leu	Gly
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Lys Phe 6	Glu Ala	Leu Asp	Pro Val	Val	Lys	Arg 75	Ala	Arg	Ser	Arg	Lys
His Ile F	Phe Thr	Trp Ser 85	Gly Glu		Glu 90	Arg	Pro	Thr	Leu	Ser 95	Lys
Asp Glu A	Arg Ala 100	Phe Tyr	Asp His	Ala 105	Ser	Asp	Phe	Gly	Ile 110	Arg	Ser
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